

Title (en)
Drilling string connector.

Title (de)
Bohrgestängeverbindung.

Title (fr)
Connexion pour train de tiges.

Publication
EP 0624709 A3 19950510 (EN)

Application
EP 94401053 A 19940511

Priority
US 6264593 A 19930514

Abstract (en)
[origin: EP0624709A2] A tubular connector for connecting a drilling tool assembly to a drill string for use in CTD operations. The connector has a fluid flow passage therethrough, and comprises: a first part including means for fixing to the drill string and a second part including means for fixing to the drilling tool assembly; inter engaging formations such as splines provided on the first and second parts such that, when engaged, said formations do not prevent relative axial movement of the first and second parts but prevent relative rotation thereof; a threaded collar provided around adjacent end portions of the first and second parts for axial location thereof when connected. The connector can also include a non-return valve assembly located in the fluid flow passage; a pressure actuated piston device in the fluid flow passage for disconnecting the drilling tool assembly from the drill string; and a pressure actuated valve which, when operated, allows fluid communication between the fluid flow passage and an exterior region of the connector. <IMAGE>

IPC 1-7
E21B 17/06; **E21B 34/10**

IPC 8 full level
E21B 17/046 (2006.01); **E21B 17/06** (2006.01); **E21B 34/14** (2006.01)

CPC (source: EP US)
E21B 17/046 (2013.01 - EP US); **E21B 17/06** (2013.01 - EP US); **E21B 34/142** (2020.05 - EP US)

Citation (search report)

- [XY] US 2314867 A 19430330 - ALEXANDER BOYNTON
- [X] DE 3812211 A1 19891102 - PREUSSAG AG BAUWESEN [DE]
- [X] US 3623753 A 19711130 - HENRY RALPH L
- [X] DE 384639 C 19231124 - EMIL PINOS
- [Y] US 4913229 A 19900403 - HEARN DAVID D [US]
- [Y] US 4805696 A 19890221 - HENDERSON WILLIAM D [US]
- [Y] US 4452472 A 19840605 - CRASE GARY M [US]
- [Y] US 4312406 A 19820126 - MCLAURIN CHARLES H, et al
- [Y] FR 2485686 A1 19811231 - ARIAS MARCEL [FR]
- [Y] US 3476414 A 19691104 - CONDRAC ROBERT F
- [Y] US 2485763 A 19491025 - JAMES MOON
- [A] US 3668754 A 19720613 - BOAST DEREK WALTER
- [A] US 2843399 A 19580715 - ARTERBURY BRYANT P, et al
- [PA] US 5219027 A 19930615 - TAYLOR WILLIAM T [US]

Cited by
US5984029A; US6053262A; RU175172U1; CN104180101A; EP0681086A3; EA008580B1; RU2612373C2; GB2381806A; US5857710A; GB2342370A; GB2342370B; CN104180100A; GB2395213A; GB2395213B; US5884716A; GB2322391A; US6923256B2; US9752401B2; US6213202B1; WO9816720A1; WO2005045178A1; US7011162B2; US9605503B2; US10087726B2

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